

MONTHLY WEATHER REVIEW,

NOVEMBER, 1877.

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

INTRODUCTION.

The present REVIEW for the month of November depends upon all official data received up to the 15th of December from the Canadian Meteorological Office; the United States Navy; the Army Post Surgeons; the Voluntary and Regular Observers of the United States Signal Service. The most interesting features of the month have been: *First*, The three severe storms that occurred the first nine days of the month. *Second*, The excess in pressure in the Middle States, Lower Lake region and New England. *Third*, The general excess of rain-fall, except in the Northwest. *Fourth*, The general continuation of high temperature, except in the Gulf States. *Fifth*, The unusually large number of Cautionary Signals displayed. *Sixth*, The unusually large number of earthquakes.

BAROMETRIC PRESSURE.

In General.—The general distribution of atmospheric pressure for the month is shown by the isobars on chart No. II, from which it appears that the area of highest pressure, or that included within the isobar of 30.10, includes the Gulf, South Atlantic and Middle Atlantic States. The area of lowest pressure on the chart lies in Dakota. The general distribution of pressure agrees very nearly with the mean since 1872, with the exception of a marked excess in the Middle and New England States. The pressure on the Pacific coast has been about the mean.

Barometric Ranges.—The general range of pressure (as reduced to sea-level) is shown by the following table, which gives the highest and lowest pressures at the centre of high and low areas respectively, and from which it will appear that for the whole country a range of 1.76 inches has been recorded:

LOW AREAS.				HIGH AREAS.			
No.	Location.	Date.	Minimum Pressure.	No.	Location.	Date.	Maximum Pressure.
I	Father Point.....	Nov. 3rd, 7:35 a. m.....	28.92	I	Nova Scotia.....	Nov. 2nd, 7:35 a. m.....	30.16
II	St. Paul.....	Nov. 1st, 11 p. m.....	29.50	II	Middle States.....	Nov. 4th, 7:35 a. m.....	30.48
III	Cape Breton.....	Nov. 6th, 4:35 p. m.....	29.48	III	Lower Missouri valley..	Nov. 5th, 7:35 a. m.....	30.62
IV	Bismarck.....	Nov. 6th, 11 p. m.....	29.50	IV	Indian Territory.....	Nov. 10th, 7:35 a. m.....	30.60
V	Toledo and Detroit	Nov. 8th, 4:35 p. m.....	29.47	V	New England.....	Nov. 20th, 11 p. m.....	30.68
VI	Parry Sound.....	Nov. 16th, 4:35 p. m.....	29.82	VI	Indian Territory.....	Nov. 29th, 11 p. m.....	30.59
VII	Cape Breton.....	Nov. 16th, 7:35 a. m.....	29.33				
VIII	Lynchburg.....	Nov. 23rd, 11 p. m.....	29.63				
IX	Bismarck.....	Nov. 20th, 4:35 p. m.....	29.55				
X	Bismarck.....	Nov. 23rd, 4:35 p. m.....	29.31				
XI	Esplanada.....	Nov. 27th, 4:35 p. m.....	29.22				
XII	Halifax.....	Nov. 29th, 11 p. m.....	29.11				

The local barometric ranges have been as follows: *Large Ranges.*—Albany, 1.51; Burlington, 1.54; New Haven and Eastport, 1.46; Rochester, 1.44; Buffalo, 1.45; Boston, 1.42. *Small Ranges.*—Sacramento, 0.52; Santa Fe, 0.51; San Francisco, 0.56; Los Angeles, 0.45; Denver, 0.66; Jacksonville, 0.61.